synthetic

<110> Feldmann, Richard J.; Connectron Holding, Inc.

<120> Synthetic Connectron

<130> Jim Zegeer Law Offices - 703-684-8333

<141> 1 July 2003
<150> US 60/393,558 and US 09/866,925

<160> 34

<170> Proprietary

<210> 1

<211> 217
<212> DNA
<213> Saccharomyces cerevisiae complete genome.

<220>
<222> (12572)...(12788)
<223> Chromosome = 1 Strand = positive ConnectronObjectNumber = 36

<400> 1
gcactggtaa caggtggtaa tgaagaagta atttcctgac ttgttgttgt actggtaaca 60
ggtggtaatg atgaagtaat ttcctgactt gttgttgtac tggtaacagg tggtaatgaa 120
gaagtaattt cctgacttgt tgttgcactg gtaacaggtg gtaatgatga agtaatttcc 180
tgacttgttg ttgtactggt aacaggtggt aatgatg 217

<210> 2

<211> 236
<212> DNA
<213> Saccharomyces cerevisiae complete genome.

<220>
<222> (12572)...(12807)
<223> Chromosome = 1 Strand = positive ConnectronObjectNumber = 39

<400> 2
gcactggtaa caggtggtaa tgaagaagta atttcctgac ttgttgttgt actggtaaca 60
ggtggtaatg atgaagtaat ttcctgactt gttgttgtac tggtaacagg tggtaatgaa 120
gaagtaattt cctgacttgt tgttgcactg gtaacaggtg gtaatgatga agtaatttcc 180
tgacttgttg ttgtactggt aacaggtggt aatgatgaag cagtttcctg gcttgt 236

<210> 3

<211> 166

synthetic

<212> DNA
<213> Saccharomyces cerevisiae complete genome.

<220>
<222> (24863)...(25028)
<223> Chromosome = 1 Strand = negative ConnectronObjectNumber = 112

<400> 3
aatcaccaaa gtctacatat tcgtcttcat cattaccacc tgttaccagt gcaacaacaa 60
gtcaggaaat tacttcttca ttaccacctg ttaccactac aaaaacgagc gaacaaacca 120
ctttggttac cgtgacatcc tgcgaatctc atgtgtgcac tgaatc 166

<210> 4

<211> 37
<212> DNA
<213> Escherichia coli K-12 MG1655 complete genome.

<220>
<222> (4626130)...(4626166)
<223> Chromosome = 1 Strand = positive ConnectronObjectNumber = 4651a

<400> 4
tctgatgaca aacgccaaac tgcctgatgc gctacgc 37

<210> 5

<211> 54
<212> DNA
<213> Escherichia coli K-12 MG1655 complete genome.

<220>
<222> (705150)...(705203)
<223> Chromosome = 1 Strand = negative ConnectronObjectNumber = 811a

<400> 5
tctgatgaca aacgccaaac tgcctgatgc gctacgctta tcaggcctac gcag 54

<210> 6

<211> 36
<212> DNA
<213> Escherichia coli K-12 MG1655 complete genome.

<220>
<222> (757718)...(757753)
<223> Chromosome = 1 Strand = negative ConnectronObjectNumber = 975

synthetic

<400> 6
ttacgcctga tgcgctgcgc ttatcaggcc tacggg
36

<210> 7

<211> 37
<212> DNA
<213> Escherichia coli K-12 MG1655 complete genome.

<220>
<222> (4626130)...(4626166)
<223> Chromosome = 1 Strand = positive ConnectronObjectNumber =
4651a

<400> 7
tctgatgaca aacgccaaac tgcctgatgc gctacgc
37

<210> 8

<211> 54
<212> DNA
<213> Escherichia coli K-12 MG1655 complete genome.

<220>
<222> (698713)...(698766)
<223> Chromosome = 1 Strand = negative ConnectronObjectNumber =
809

<400> 8
tctgatgaca aacgccaaac tgcctgatgc gctacgctta tcaggcctac gcag
54

<210> 9

<211> 36
<212> DNA
<213> Escherichia coli K-12 MG1655 complete genome.

<220>
<222> (757718)...(757753)
<223> Chromosome = 1 Strand = negative ConnectronObjectNumber =
975

<400> 9
ttacgcctga tgcgctgcgc ttatcaggcc tacggg
36

<210> 10

<211> 16
<212> DNA
<213> Saccharomyces cerevisiae complete genome - problem.

synthetic

<220>
<222> (221330)...(221345)
<223> Chromosome = 2 Strand = positive ConnectronObjectNumber = 792a

<400> 10
tatatatatg tcactg 16

<210> 11

<211> 16
<212> DNA
<213> Saccharomyces cerevisiae complete genome - problem.

<220>
<222> (221346)...(221361)
<223> Chromosome = 2 Strand = positive ConnectronObjectNumber = 793

<400> 11
tattgcatgc tggatg 16

<210> 12

<211> 539
<212> DNA
<213> Saccharomyces cerevisiae complete genome - problem.

<220>
<222> (448454)...(448992)
<223> Chromosome = 5 Strand = positive ConnectronObjectNumber = 4749

<400> 12
tatatatatg tcactgtatt gcatgctgga tggtgttaga caaggccgta gggacatata 60
gcatctagga agtaaccttg tacgaaaata ggcaatattt cctgtttagg cgattgtgac 120
gcagatttta gtccaacgat ctagcgtcaa ggaatttttt tatagtggga cattgcacca 180
aggaagtaac ttgatacgtc gtgggtgaat gggtctgttt tcttattcgg cggggtaata 240
cattttggg ggaagtttgt ctgtctgacg cgccatatgt aggtacgcca aaaagggctc 300
ctctacttcg aagcgcgagg tcgtatacct aataaggaaa tgtaatttat aacttttat 360
tatattggtc ttttcgagag cggaacgtag gtccatgttt aaagtatcca agagaatatc 420
cacgaagcgg ctgagcaacg aacagaatcc tggttctcct cgactaagca gatagttaag 480
atactgtgca ccatggaaat tgaaaacgaa agtacgtacc gactacttta tttttgcag 539

<210> 13

<211> 158
<212> DNA

synthetic
<213> Saccharomyces cerevisiae complete genome - problem.

<220>
<222> (24863)...(25028)
<223> Chromosome = 5 Strand = negative ConnectronObjectNumber = 4824a

<400> 13
tatatatatg tcactgtatt gcatgctgga tggtgttaga caaggccgta gggacatata 60
gcatctagga agtaaccttg tacgaaaata ggcaatattt cctgtttagg cgattgtgac 120
gcagatttta gtccaacgat ctagcgtcaa ggaatttt 158

<210> 14

<211> 134
<212> DNA
<213> Halobacterium sp. NRC-1 complete genome.

<220>
<222> (732401)...(732534)
<223> Chromosome = 1 Strand = positive ConnectronObjectNumber = 6612

<400> 14
ttcatcacag acgaggacga gcgcggccaa gtggggatcg gcacactcat cgtgttcatc 60
gcgatggtgc tggtcgccgc gatcgccgcc ggcgtcctca tcaacactgc cggctacctc 120
caatccaagg ggtc 134

<210> 15

<211> 193
<212> DNA
<213> Halobacterium sp. NRC-1 complete genome.

<220>
<222> (733018)...(733209)
<223> Chromosome = 1 Strand = positive ConnectronObjectNumber = 6644a

<400> 15
gacgagcgcg gtcaagtggg gatcggcaca ctcatcgtgt tcatcgcgat ggtgctggtc 60
gccgcgatcg ccgccggcgt cctcatcaac accgccggct acctccaatc caaggggtcg 120
gcaaccggtg aggaagcctc cgcacaggtc tccaaccgca tcaacatcgt ctccgcgtac 180
ggcaacgtca aca 193

<210> 16

<211> 85

synthetic

<212> DNA
<213> Halobacterium sp. NRC-1 complete genome.

<220>
<222> (773399)...(773483)
<223> Chromosome = 1 Strand = positive ConnectronObjectNumber = 6852

<400> 16
gtggggatcg gcacgctcat cgtgttcatc gcgatggtgc tggtcgccgc gatcgccgcc 60
ggcgtcctca tcaacactgc cggct 85

<210> 17

<211> 121
<212> DNA
<213> Pseudomonas aeruginosa PA01, complete genome.

<220>
<222> (4832718)...(4832838)
<223> Chromosome = 1 Strand = positive ConnectronObjectNumber = 53464

<400> 17
gccaacatcg aggccctcaa cagccgcacg gtgaacatcg gccagatcct cgaagtgatc 60
aagggcatct ccgagcagac caacctgctc gccctcaacg ccgccatcga agccgcgcgc 120
g 121

<210> 18

<211> 194
<212> DNA
<213> Pseudomonas aeruginosa PA01, complete genome.

<220>
<222> (4836528)...(4836720)
<223> Chromosome = 1 Strand = positive ConnectronObjectNumber = 53531

<400> 18
ggacggcaaa caggtggtcg agcagaccat ccgcgcgatg aacgagcttt ccgagaagat 60
cagcgcctcc tgcgccaaca tcgaggccct caacagccgc acggtgaaca tcggccagat 120
cctcgaagtg atcaagggca tctccgagca gaccaacctg ctcgccctca acgccgccat 180
cgaagccgcg cgcg 194

<210> 19

<211> 169

synthetic

<212> DNA
<213> Pseudomonas aeruginosa PA01, complete genome.

<220>
<222> (4838678)...(4838846)
<223> Chromosome = 1 Strand = positive ConnectronObjectNumber = 53549a

<400> 19
accatccgcg cgatgaacga gctttccgag aagatcagcg cctcctgcgc caacatcgag 60
gccctcaaca gccgcacggt gaacatcggc cagatcctcg aagtgatcaa gggcatctcc 120
gagcagacca acctgctcgc cctcaacgcc gccatcgaag ccgcgcgcg 169

<210> 20

<211> 36
<212> DNA
<213> Sequence Recognized by Synthetic DNA Binding Protein.

<220>

<400> 20
tccccatgag catagatatg caggtaggcg gcaagt 36

<210> 21

<211> 136
<212> DNA
<213> Vibrio cholerae chromosome I, complete chromosome.

<220>
<222> (952641)...(952777)
<223> Chromosome = 1 Strand = negative ConnectronObjectNumber = 607

<400> 21
tgtatatacc caaactactt ggagttgcag gtaggcggca agtgagtgag tccccatgag 60
catagataga ctatgtgatt ggggtgaacg aacgtagcca acaccgctgc agcttcaagt 120
aggaagggta tacctt 136

<210> 22

<211> 117
<212> DNA
<213> Vibrio cholerae chromosome I, complete chromosome.

<220>
<222> (1005810)...(1005926)
<223> Chromosome = 1 Strand = negative ConnectronObjectNumber = 646

synthetic

<400> 22
taccaaaact acttggagtt gcaggtaggc ggcaagagag tgaatcccca tcagcataga
60
cagactatgt gattggggtg aacgaacgta gccaataccg ctgcagcttc aagtagg
117

<210> 23

<211> 36
<212> DNA
<213> Sequence Recognized by Synthetic PNA.

<220>

<400> 23
tccccatgag catagatatg caggtaggcg gcaagt
36

<210> 24

<211> 136
<212> DNA
<213> Vibrio cholerae chromosome I, complete chromosome.

<220>
<222> (952641)...(952777)
<223> Chromosome = 1 Strand = negative ConnectronObjectNumber =
607

<400> 24
tgtatatacc caaactactt ggagttgcag gtaggcggca agtgagtgag tccccatgag
60
catagataga ctatgtgatt ggggtgaacg aacgtagcca acaccgctgc agcttcaagt
120
aggaagggta tacctt
136

<210> 25

<211> 117
<212> DNA
<213> Vibrio cholerae chromosome I, complete chromosome.

<220>
<222> (1005810)...(1005926)
<223> Chromosome = 1 Strand = negative ConnectronObjectNumber =
646

<400> 25
taccaaaact acttggagtt gcaggtaggc ggcaagagag tgaatcccca tcagcataga
60
cagactatgt gattggggtg aacgaacgta gccaataccg ctgcagcttc aagtagg
117

synthetic

<210> 26

<211> 15
<212> DNA
<213> Sequence Recognized by Synthetic Linked Pair of DNA Binding Objects.

<220>

<400> 26
cccgacacaa cctgc
15

<210> 27

<211> 15
<212> DNA
<213> Sequence Recognized by Synthetic Linked Pair of DNA Binding Objects.

<220>

<400> 27
cccggggttc ccgag
15

<210> 28

<211> 64
<212> DNA
<213> Aeropyrum pernix K1 complete genome.

<220>
<222> (284008)...(284070)
<223> Chromosome = 1 Strand = negative ConnectronObjectNumber = 218

<400> 28
cccagccgtg cccgacacaa cctgccataa tttgttacat gaaggcacgg tttgggtgaa
60
cggc
64

<210> 29

<211> 163
<212> DNA
<213> Aeropyrum pernix K1 complete genome.

<220>
<222> (326716)...(326878)
<223> Chromosome = 1 Strand = negative ConnectronObjectNumber = 295

<400> 29
ataaatctaa cccggtgacc ccggggttcc cgagggaagc ccccaggggc ttccgtaggc

synthetic

60
ggccccgggg agaccgtgat gaacccagcc gtgcccgaca caacctgcta taatttgtta
120
catgaaggca cggtttgggt gaacggctca taatcctctc gat
163

<210> 30

<211> 14
<212> DNA
<213> Synthetic sequence.

<220>

<400> 30
tagaggagtaccac
14

<210> 31

<211> 14
<212> DNA
<213> Synthetic sequence.

<220>

<400> 31
atctcctcatggtg
14

<210> 32

<211> 14
<212> RNA
<213> Synthetic sequence.

<220>

<400> 32
uagaggaguaccac
14

<210> 33

<211> 14
<212> RNA
<213> Synthetic sequence.

<220>

<400> 33
gugguacuccucua
14

<210> 34

<211> 14
<212> RNA
<213> Synthetic sequence.

<220>

synthetic

<400> 34
aucuccucauggug
14